SCOPE OF WORK
For

Rifle 30. Cal., M1

NSN 1005-00-674-1425

Ceremonial and Civilian Marksmanship Programs

1. Purpose: This Scope of Work (SOW) is provided for the screening and/or Inspection and Repair of subject rifles that are destined for Ceremonial Rifle, Junior and Senior ROTC and Civilian Marksmanship Programs. Rifles, which are to be reworked and accepted under the criteria contained herein, will be classified Condition Code B (Serviceable – Issuable with qualification) or G (Unserviceable – Incomplete) per AR 725-50. Those rifles, which are not acceptable to the criteria contained herein, will be classified Condition Code H (Unserviceable – Condemned) per AR 725-50 and set aside as a candidate for the Dummy Drill Rifle (ROTC) or CMP programs.

2. References:

a. TM 9-1005-222-12, 1969, Maintenance Manual Including Repair Parts List.
b. MIL-L-46147, Lubricant, Solid Film (Color: Gray or Black).
c. MIL-L-23398, Lubricant, Solid Film (Color: Gray or Black).
d. VV-L-800, Lubricant, Oil Preservative, General Purpose.
e. MIL-L-3150, Lubricant, Oil Preservative, Medium.
f. MIL-P-14232, Parts, Equipment and Tools for the Army Material: Packaging of.

3. Inspection/Test Equipment:

a. Gage, Barrel Erosion, 0.308 max, PN 5564343.
b. Gage, Headspace, 1.940 min, PN 7319944.
c. Gage, Headspace, 1.946 max, PN 7319950.
d. Fixture, Trigger Pull, 4.5 lbs min – 8.0 lbs max, PN 7274758 or equivalent

4. Inspection: The Contractor will disassemble each rifle to the extent necessary, as prescribed in TM 9-1005-22-12 to perform the following visual and/or functional inspections.

a. Barrel:

(1) Visually examine barrel bore for obstructions, pits larger than 3/8 inches in diameter, pits that completely cross and land or groove, ring(s) within the bore, bulges on exterior of the barrel, and cracks on either the barrel and/or receiver assembly. Evidence of one or more of these characteristics shall be cause of rejection for the CMP Program. Rifles being rejected because of pitting or rings in the barrel are acceptable as candidates for the Ceremonial and/or ROTC Dummy Drill programs. NOTE: Rifles that fail

headspace requirements in paragraph c (1), shall only be accepted for the ROTC Dummy Drill Rifle Program.

(2) Using a dummy M2 ball cartridge, insert the bullet end of the cartridge into the muzzle. If the cartridge inserts to 1/32 inch of the case or farther, reject the rifle for the CMP Program. Rifles, which fail the cartridge test, shall be accepted for the Ceremonial and/or Dummy Drill Rifle Programs.

(3) Dimensionally examine barrels for erosion using gage PN 5564343. Barrels that exceed a reading 0.308 (5^{th} graduation of gage) shall be cause for rejection for CMP Program. Weapons rejected for erosion criteria greater than 0.308 are acceptable candidates for the Ceremonial and/or ROTC Dummy Drill Rifle Programs. The Contractor shall furnish all gages required for the work under this contract.

b. Subassemblies/Assemblies:

(1) Metal subassemblies/assemblies shall be visual examined for burrs, cracks, corrosion, deformation and/or missing components. Evidence of one or more of these characteristics shall be cause of rejection and subsequent repair and/or replacement. Cannibalization of subassemblies/assemblies to repair and/or replace missing components is authorized under this scope of work.

(2) Metal subassemblies/assemblies that exhibit bare spots, chips, scratches, etc., which may be visible after final assembly, shall be touched-up using MIL-L-46147 or MIL-L-23398.

(3) Stocks and hand guards shall be visually examined and rejected and/or accepted based on the following:

(a) Cracks which may open or spread during usage shall not be cause for rejection, as long as they do not exceed 2 inches in length, and are not located in a gripping area.

(b) Stocks containing nicks or gouges larger than 1 inch in length, ¼ inch in width, and/or 1/8 inch in depth shall be cause for rejection. All wood that fails the above criteria, shall be stock piled for screening and rework.

(c) Stocks containing cracks shall not be cause for rejection unless the crack presents a potential weakness of the stock or presents the potential of inducing splinters to the operator.

(d) Small cracks in the front or rear areas of the handguard shall not be cause for rejection.

(e) Stocks and/or handguards which exhibit painted/stamped/engraved alpha or numeric characters shall not be cause for rejection. Stocks and/or handguards, which exhibit painted alpha or numeric characters, shall be repaired by removal of painted character. The outside of the stock or handguard shall then be oiled with linseed oil.

(f) Previously repaired stocks and/or handguards that meet the above criteria shall not be cause for rejection.

c. Headspace Testing:

(1) Each rifle shall be headspace tested using the headspace test procedure provided in TM 9-1005-222-12 using Headspace Gage PN 7319944 (minimum) and Headspace Gage PN 7319950 (maximum). Rifles failing to meet the headspace test (minimum and/or maximum) shall be cause for rejection.

(2) Cannibalization of bolt assemblies to achieve required headspace parameters is authorized. Rifles, which cannot be repaired by this method, shall be used for the ROTC Dummy Drill Rifle Program SOW.

d. Functional Inspections: Each rifle shall be assembled and functionally inspected as per TM 9-1005-222-12 for the following:

(1) Each rifle shall be functionally examined for proper operation of any and all moving subassemblies/assemblies. Improper operation; i.e. binding of any component shall be cause for rejection of the rifle, for repair or replacement of components.

(2) Each rifle shall be functionally examined for the proper operation of the SAFETY as per TM 9-1005-222-12. Improper operation of the SAFETY shall be cause for rejection of the rifle.

(3) Each rifle shall be functionally examined for Trigger Pull, as per TM 9-1005-222-12, using Trigger Pull Test Fixture, PN 7274758 (4.5 lbs min- 8.0 lbs max). Failure to meet the trigger pull requirements shall be cause for rejection of the rifle.

(4) Any rifle failing paragraph 2 and 3 above which cannot be repaired, shall be used in the ROTC Dummy Drill Rifle program SOW.

e. Test Firing:

(1) Each rifle for the CMP Program shall be Function Fired using four (4) rounds of ball ammunition. The Government shall furnish ammunition required for test firing. The Rifle must cycle completely on its own gas system

during each round fired. Failure to cycle completely shall be cause for rejection of the rifle.

(2) Each rifle for the Ceremonial Rifle Program shall be Function Fired using three (3) rounds of blank ammunition. Failure to cycle completely shall be cause for rejection of the rifle.

f. Cleaning: Each rifle shall be cleaned after test firing; using local cleaning processes and procedures. Rifles shall be preserved using lubricants conforming to VV-L-800 or MIL-L3150.

5. Blank Firing Adapter (BFA) for Ceremonial Rifle (Encl 1):

a. Unscrew gas cylinder lock screw (Item 1) PN 6147428, NSN 1005-00-570-6963 front gas cylinder (Item 3).

b. Remove gas cylinder lock (Item 2) from threaded end of barrel.

c. Screw blank firing adapter (BFA) onto threaded end of barrel, hand tight.

d. Reinstall gas cylinder lock screw into gas cylinder until shouldered head of the screw is in contact with the shoulder edge of the BFA.

e. Installation of BFA complete.

f. The Contractor shall furnish all Blank Firing Adapters required for Ceremonial Rifles.

6. Inspection and Acceptance:

Contractor's Responsibility:

a. The plant or plants of the Contractor or Subcontractors approved by the Administrative Contracting Officer are designated as the point or respective points for final inspection and acceptance by the Government for all supplies and services to be provided under this contract, unless specified otherwise in individual delivery orders.

b. The Contractor will perform final examination of rifles repaired to ensure compliance with the requirements contained within this scope of work.

c. The Contractor shall provide for the day-to-day inspection and monitoring of all work performed to ensure compliance with the contract requirements. The results of inspections performed shall be documented in an inspection report for submission to the Government Quality Assurance Representative (QAR).

d. The Government acceptance of all items submitted under this contract shall be the responsibility of the Government QAR.

e. The extent of final examination, e.g. 100% inspection versus sample inspection, will be conducted at the discretion of the local Government QAR element.

f. In the event final examinations are performed on a sample basis by the Government QAR, lot sizes and representative samples shall be established and selected in accordance with MIL-STD-1916, Inspection Level II.

7. Packing Grease:

a. All rifles, which have been preserved in packing grease, will require degreasing by local degreasing processes/procedures. This will be accomplished in minimal lots of fifty (50). However, these types of rifles should be stock piled and bid in large quantities, i.e. 100, 150 or 200 to limit cost. CMP has the option to include all guns in their possession that require degreasing be included in this stockpile. CMP will furnish all funds needed for the degreasing of their rifles.

b. After degreasing is accomplished all rifles shall be subject to all above criteria contained in this SOW.

c. In addition, for degreased rifles, all stocks that have rough/raised surfaces as a result of the degreasing process will be required to have those surfaces removed by sanding. Only minimal sanding required to remove the rough surface. Fine sand paper or Emory cloth may be used to accomplish this procedure.

8. Packaging: All rifles shall be packaged in accordance with Commercial Packaging requirements defined in Section D of the contract.

9. For maximum benefit of all programs, it shall be authorized to exchange serviceable components/parts from ROTC Dummy Drill Rifle Program for unserviceable parts found in Ceremonial and Civilian Marksmanship Programs (CMP) Rifles. The exchange of components/parts is authorized to allow the greatest number of rifles to be refurbished for all programs. All weapons and parts residual from this maintenance program will be offered to the Civilian Marksmanship Program (CMP).

10. Repair Turnaround Time:

Normal turnaround time for repair of the M1 Garand Rifle shall not exceed 6 months from the date receipt of the M1 Garand Rifle from the Government to final completion of all repairs. Ship time to the customer shall be no more than 15 days after the date of receipt of the shipping request.